#### TECHNOLOGY SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

WEATHERPROOF

#### <u>Abbreviations</u> Audio/Video EXISTING CEILING MOUNTED PROJECTOR BRACKET FOR OFCI PROJECTOR ABOVE FINISHED FLOOR AUDIO-VIDEO OUTLET IN FLOOR BOX WITH SINGLE-GANG ADAPTER PLATE AND 1-1/4" CONDUIT UNDER SLAB TO GEL-FILLED UNDERGROUND CABLE LOCATION SHOWN ON FLOOR PLANS. (SEE A-V OUTLET SCHEDULE FOR CABLE AND CONNECTIVITY REQUIREMENTS.) AUDIO-VIDEO OUTLET WITH 5-SQUARE RANDL BOX, CATEGORY SINGLE-GANG ADAPTER PLATE AND 1-1/4" CONDUIT TO ACCESSIBLE CEILING SPACE UON. (SEE A-V OUTLET CONTRACTOR FURNISHED CONTRACTOR INSTALLED SCHEDULE FOR CABLE AND CONNECTIVITY REQUIREMENTS.) CONTRACTOR FURNISHED OWNER INSTALLED A = ABOVE COUNTER C = FLUSH CEILING WITH 1-1/4" CONDUIT TO LOCATION SHOWN ON FLOOR PLANS COAX EA EACH SURFACE MOUNTED AUDIO REINFORCEMENT SPEAKER ON WALL FIBER OPTIC DISTRIBUTION UNIT FLUSH MOUNTED CEILING AUDIO REINFORCEMENT SPEAKER FOOT, FEET TELEVISION OUTLET, WITH RG-6 CABLE AND 1"C TO HANDHOLE ACCESSIBLE CEILING BACK TO NEAREST IT ROOM. INTERMEDIATE DISTRIBUTION FRAME MICROPHONE C = CEILING MOUNTED INCH, INCHES **CEILING MOUNTED CAMERA** INFORMATION TECHNOLOGY LOCAL AREA NETWORK **Electronic Security** FIBER OPTIC CONNECTOR CEILING MOUNTED GLASS BREAK SENSOR LOW VOLTAGE MAIN DISTRIBUTION FRAME CEILING MOUNTED MOTION DETECTION SENSOR MISCELLANEOUS DOOR POSITION SWITCH/CONTACT NOT APPLICABLE ELECTRIC LATCH CONNECTION NOT TO SCALE OWNER FURNISHED, CONTRACTOR INSTALLED **ELECTRIC STRIKE DOOR LOCKS** OWNER FURNISHED, OWNER INSTALLED HANDICAP ACCESS BUTTON OUTSIDE PLANT MAGNETIC DOOR LOCKS PRIVATE BRANCH EXCHANGE PANIC BUTTON LOCATION. INSTALL AT +42" REQUEST TO EXIT DEVICE PAN, TILT, ZOOM VIDEO SURVEILLANCE CAMERA REQUEST FOR INFORMATION WALL MOUNTED ACCESS CONTROL CARD READER WALL MOUNTED KEYPAD FIBER OPTIC CONNECTOR WALL MOUNTED MOTION DETECTION SENSOR TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS GROUNDING BUS BAR TWISTED SHIELDED PAIR <u>Equipment</u> TELEPHONE TERMINAL BOARD 2-POST EQUIPMENT RACK **TYPICAL** UNLESS OTHERWISE NOTED 4-POST EQUIPMENT RACK WITHOUT DOUBLE-SIDED VERTICAL WIRE MANAGEMENT WIDE AREA NETWORK MAJOR EQUIPMENT, CABINETS OR PANELS WORK AREA OUTLET SINGLE-SIDED VERTICAL WIRE MANAGEMENT WIRELESS ACCESS POINT

# Paging/Intercom Raceways

# CABLE RUNWAY, WIDTH AS INDICATED WIRE BASKET TYPE CABLE TRAY, WIDTH AS INDICATED CONDUIT AND CONDUCTORS ABOVE GRADE CONDUIT AND CONDUCTORS BELOW GRADE OR SLAB CONDUIT DOWN CONDUIT SLEEVE CONDUIT UP CONDUIT/WIRING CONTINUATION FLEXIBLE CONDUIT ~~~~~ **GROUNDING POINT** HANDHOLE PULL BOX SURFACE RACEWAY TELECOMMUNICATIONS VAULT

TELEPHONE BACKBOARD

TELEPHONE UTILITY POLE

Reference Symbols

KEYED NOTES

TELEPHONE/DATA POWER POLE

DETAIL NUMBER AND SHEET LOCATION

SECTION NUMBER AND SHEET LOCATION

BUILDING INTERCOM CALL BUTTON WITH 3/4"C AND PULL

FLUSH MOUNTED CEILING SPEAKER

DENOTES DOUBLE SIDED.

CEILING SPACE. HEIGHT AS INDICATED.

STRING TO ACCESSIBLE CEILING SPACE. MOUNT 48" AFF.

FLUSH WALL MOUNTED SPEAKER WITH 1"C TO ACCESSIBLE

SPEAKER VOLUME CONTROL WITH 3/4"C AND PULL STRING

SURFACE MOUNTED SECONDARY CLOCK. COORDINATE

MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. "D"

TO ACCESSIBLE CEILING SPACE. MOUNT 48" AFF.

# <u>Telecommunications</u>

- 1-1/4" RACEWAY WITH SINGLE-GANG ADAPTER PLATE AND A/V CABLING.
- TELEPHONE OUTLET WITH (1) CAT6 CABLE TO NEAREST IT ROOM AND 3/4" C TO ACCESSIBLE CEILING SPACE.
- STANDARD COMMUNICATIONS OUTLET WITH (3) CAT6

CEILING SPACE.

ALTERNATE COMMUNICATIONS OUTLET (X): A= ABOVE COUNTER WITH (3) CAT6 CABLE(S) TO NEAREST IT ROOM AND 1"C TO ACCESSIBLE CEILING

CABLE(S) TO NEAREST IT ROOM AND 1"C TO ACCESSIBLE

- B= WITH (2) CAT6 CABLE(S) AND (1) RG-6 COAX CABLE TO NEAREST IT ROOM AND 1"C TO ACCESSIBLE CEILING SPACE. DOUBLE-GANG ADAPTER PLATE REQUIRED.
- C= SINGLE GANG BOX, FLUSH IN CEILING, MOUNTED TO TILE BRIGE WITH (2) CAT6 CABLE(S) TO NEAREST IT
- E= WITH (4) CAT6 CABLE(S) TO NEAREST IT ROOM AND 1"C TO ACCESSIBLE CEILING SPACE T= TAMPER RESISTANT WITH (3) CAT6 CABLE(S) TO NEAREST IT ROOM AND 1"C TO ACCESSIBLE CEILING
- V= OUTLET WITH (1) CAT6 CABLE TO NEAREST MDF/IDF FOR IP CAMERA.
- W= LOCATION FOR FLUSH MOUNT WIRELESS ACCESS POINT OUTLET WITH (1) CAT6 CABLE TO NEAREST IT ROOM AND 1"C ACCESSIBLE CEILING SPACE, UON.
- FLUSH FLOOR COMBINATION COMMUNICATIONS OUTLET WITH (4) UL LISTED, GEL-FILLED CAT6 CABLE(S) AND 1" UNDER SLAB CONDUIT TO NEAREST IT ROOM, UON.
- OUTLET WITH 1" C FLEX CONNECTION TO FURNITURE SYSTEM OR CASEWORK. "X" DENOTES QUANTITY OF CAT6 CABLES.
- POKE-THRU COMBINATION TELE/DATA OUTLET, WITH (3) CAT6 CABLE(S) TO NEAREST IT ROOM, UON.

#### **GENERAL TECHNOLOGY NOTES:**

- A. COMMUNICATIONS RACEWAYS, TRAYS, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. LOCATIONS ARE APPROXIMATE UNLESS SPECIFICALLY DIMENSIONED. FIELD COORDINATE ALL WORK WITH OTHER TRADES.
- B. CONSTRUCTION DETAILS SHOW TYPICAL INSTALLATION, UON, AND APPLY TO ALL COMMUNICATIONS WORK INCLUDED IN THE SUMMARY OF WORK FOR THIS PACKAGE EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE PLAN

DRAWINGS.

- C. THE TECHNOLOGY DRAWINGS ARE PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF DRAWINGS LISTED BY THE "INDEX OF DRAWINGS." PARTIAL SETS OF DRAWINGS NOT INCLUSIVE OF ALL DISCIPLINES ARE INCOMPLETE
- AND SHOULD NOT BE DISTRIBUTED OR UTILIZED. D. INSTALL PULL STRINGS IN ALL CONDUITS AT THE TIME OF CONDUIT AND CABLE INSTALLATION.
- COORDINATE ALL DOOR ACCESS CONTROL FUNCTIONS WITH ADA DOOR ACTUATOR FUNCTION SUCH THAT DOOR MOTOR WILL NOT OPERATE WITHOUT PRIOR VALID CARD READ DURING SECURE MODE OPERATION.

# SHEET INDEX

ET001 TECHNOLOGY SYMBOLS LIST AND SHEET INDEX

ET100 BASEMENT LEVEL PLAN - TECHNOLOGY

ET101 LEVEL 1 PLAN - TECHNOLOGY ET102 LEVEL 2 PLAN - TECHNOLOGY

ET401 TYPICAL ENLARGED TECHNOLOGY PLANS

ET601 TECHNOLOGY DIAGRAMS AND DETAILS ET602 TECHNOLOGY DIAGRAMS AND DETAILS

# **BID DOCUMENT NOVEMBER/02/2015**

Drawing Title Project Title Project Number ARCHITECT/ENGINEERS: CONSULTANTS: Office of INTENSIVE OUTPATIENT MENTAL HEALTH TECHNOLOGY SYMBOLS AND EDUCATION BUILDING Construction BID DOCUMENT 11/02/2015 PROJECT 2013-0512 **Building Number** LIST AND SHEET INDEX CONTACT Michael Troyer SPOKANE VA MEDICAL CENTER SPOKANE, WASHINGTON 99205 100% CONSTRUCTION DOCUMENT 1/26/2015 and Facilities 12/30/14 Approved: Project Director Location Drawing Number Management 99% CONSTRUCTION DOCUMENT 12/17/14 100 SW Main Street SPOKANE, WASHINGTON 99205 95% CONSTRUCTION DOCUMENT 10/13/14 Suite 1600 Portland, OR 97204 Approver ET001 65% DESIGN DEVELOPMENT 6/27/14 Checked TEL 503.382.2266 FAX 503.382.2262 Department of Veterans Affairs SCHEMATIC DESIGN 3/28/14 www.interfaceengineering.com MT 11/02/2015 Dwg. of 11/02/15 | 425-291-7078 Date Revisions |

## DEDUCTIVE ALTERNATE BID AREA #1 **CONSTRUCTION NOTES:**

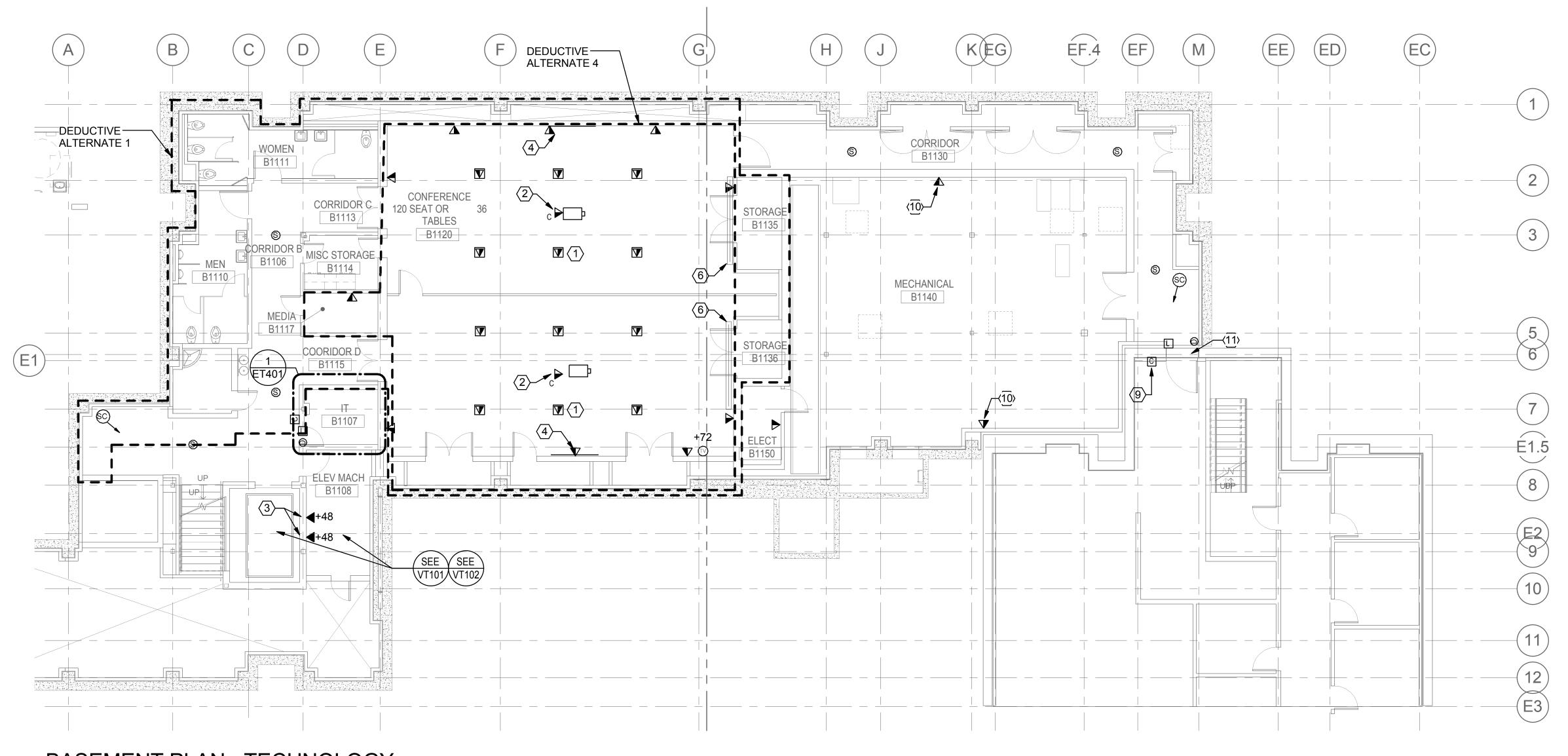
- OMIT ALL TELECOMMUNICATIONS, AV AND SECURITY DEVICES FROM AREA INDICATED.
- 2. PROVIDE SPARE CONDUIT SLEEVES BETWEEN THE TELECOM ROOMS.

### **GENERAL SHEET NOTES**

A EXTEND SECURITY CAMERA AND DOOR ACCESS CONTROLS CABLING TO EXISTING DMP MODEL XR500N SECURITY CONTROL PANEL SYSTEM IN BUILDING 40. COORDINATE WITH ALLIED FIRE & SECURITY FOR CONNECTION TO EXISTING SYSTEM.

# ○ SHEET KEYNOTES

- 1 TYPICAL OF 12 ON THIS SHEET, PROVIDE COMBINATION POWER/DATA RECESSED FLOORBOX. ROUTE ALL DATA CONDUIT BACK TO CEILING SPACE OF IT ROOM. SEE ELECTRICAL PLAN EP100.
- 2 PROVIDE CEILING MOUNTED COMMUNICATIONS OUTLET FOR OFCI PROJECTOR. COORDINATE INSTALLATION LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 3 PROVIDE (2) DEDICATED TELEPHONE OUTLETS FOR ELEVATORS. (1) FOR EACH ELEVATOR.
- 4 SMART BOARD LOCATION MOUNT SMART BOARD SO THAT TOP OF BOARD IS AT 6'-6" FROM FINISHED FLOOR.
- 5 AUDIO VISUAL INPUT WALL PLATE (1) HDMI, (1) VGA AND (1) AUDIO INPUT - ROUTE CABLING TO PROJECTOR LOCATION.
- 6 POWERED PROJECTION SCREEN FLUSH
- MOUNTED IN CEILING.
- 7 8 X 8 X 4 JUNCTION BOX ABOVE CEILING FOR CONDUIT AND CABLING CONNECTIONS TO AV LOCATIONS, PROJECTOR LOCATION AND ROUTING TO MEDIA ROOM.
- 8 84" TALL 4-POST EQUIPMENT RACK FOR OWNER AV EQUIPMENT.
- <sup>9</sup> FLUSH CEILING SPEAKERS WITH CABLING TO THE PROJECTOR LOCATION - INSTALL A MINI AMP AT THE PROJECTOR FOR THE SPEAKER
- 10 COMMUNICATIONS OUTLET FOR DDC. COORDINATE EXACT LOCATION WITH DIVISION 23 SPECIFICATIONS.
- 11 PROVIDE SEISMIC FITTINGS FOR CONDUITS AT EXPANSION JOINT BETWEEN BUILDING 40A AND BUILDING 40.
- 12 REFER TO DETAIL 3/ET601 FOR SINGLE ACCESS DOOR CARD DETAIL.



BASEMENT PLAN - TECHNOLOGY

**BID DOCUMENT NOVEMBER/02/2015** 

Drawing Title Project Title Project Number CONSULTANTS: ARCHITECT/ENGINEERS: Office of INTENSIVE OUTPATIENT MENTAL HEALTH BASEMENT LEVEL PLAN -AND EDUCATION BUILDING Construction 11/02/2015 BID DOCUMENT PROJECT 2013-0512 **Building Number TECHNOLOGY** CONTACT Michael Troyer SPOKANE VA MEDICAL CENTER SPOKANE, WASHINGTON 99205 1/26/2015 100% CONSTRUCTION DOCUMENT and Facilities 12/30/14 Approved: Project Director Drawing Number Management 99% CONSTRUCTION DOCUMENT Location 12/17/14 100 SW Main Street SPOKANE, WASHINGTON 99205 95% CONSTRUCTION DOCUMENT 10/13/14 Suite 1600 Portland, OR 97204 TEL 503.382.2266 Approver ET100 65% DESIGN DEVELOPMENT 6/27/14 Checked FAX 503.382.2262 www.interfaceengineering.com Department of Veterans Affairs SCHEMATIC DESIGN 3/28/14 11/02/2015 MT Dwg. of 11/02/15 | 425-291-7078 Date Revisions |

# DEDUCTIVE ALTERNATE BID AREA #2 **CONSTRUCTION NOTES:**

OMIT ALL TELECOMMUNICATIONS, AV AND SECURITY DEVICES AND ASSOCIATED CIRCUITS AND PATHWAY IN WALLS NOT BEING BUILT AS PART OF DEDUCT.

- 2. PROVIDE SPARE CONDUIT SLEEVES BETWEEN THE TELECOM ROOMS.
- 3. PROVIDE CONDUIT PATHWAY AND BACKBOXES FOR ALL DEVICES ON FINISHED WALLS WITHIN DEDUCT

# ○ SHEET KEYNOTES

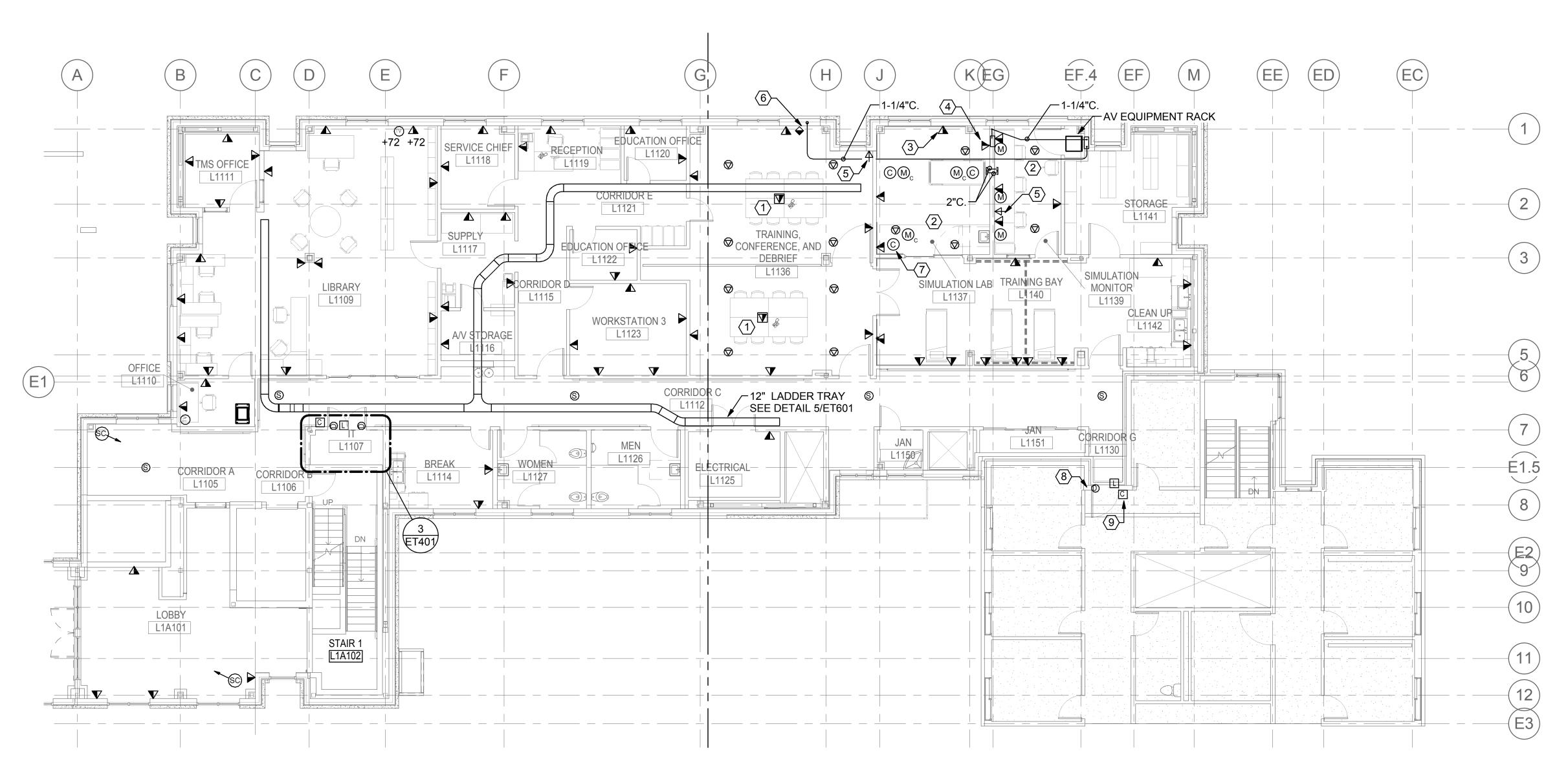
1 PROVIDE COMBINATION POWER/DATA RECESSED FLOORBOX. SEE ELECTRICAL PLAN

**GENERAL SHEET NOTES** 

A EXTEND SECURITY CAMERAS AND DOOR ACCESS CONTROLS CABLING TO EXISTING DMP MODEL XR500N SECURITY CONTROL PANEL SYSTEM IN

BUILDING 40. COORDINATE WITH ALLIED FIRE & SECURITY FOR CONNECTION TO EXISTING SYSTEM.

- 2 ROUTE AUDIO VISUAL DEVICE CABLING AND CONDUIT IN THIS AREA TO AV EQUIPMENT RACK IN CLOSET. CEILING MICROPHONES AND SPEAKERS ARE TO BE INDIVIDUALLY CONTROLLABLE AND ROUTABLE FROM THE LAB SIMULATION MONITOR ROOM.
- 3 PROVIDE DATA OUTLET FOR OFCI SMARTBOARD. COORDINATE INSTALLATION LOCATION WITH ARCHITECTURAL ELEVATIONS AND PLANS PRIOR TO ROUGH-IN.
- 4 PROVIDE DATA OUTLET FOR MONITOR AND WORKSTATION. COORDINATE INSTALLATION LOCATION WITH ARCHITECTURAL ELEVATIONS AND PLANS PRIOR TO ROUGH-IN.
- 5 PROVIDE AND INSTALL AN INTERCOM BETWEEN THE CONFERENCE ROOM AND LAB SIMULATION MONITOR ROOM.
- 6 PROVIDE AND INSTALL AN AV OUTLET BACKBOX WITH CONDUIT TO THE AV RACK LOCATED IN THE LAB SIMULATION MONITOR ROOM - FOR FUTURE CABLING
- 7 TYPICAL CAMERAS TO BE INSTALLED ARE OWNER FURNISHED AND CONTRACTOR INSTALLED - CAMERAS ARE A POE STYLE DOME CAMERA - INSTALL (1) CAT6 CABLE FROM THE CAMERA LOCATION TO THE AV RACK LOCATION IN THE LAB SIMULATION MONITOR ROOM. TYPICAL OF 3.
- 8 PROVIDE SEISMIC FITTINGS FOR CONDUITS AT EXPANSION JOINT BETWEEN BUILDING 40A AND BUILDING 40.
- 9 REFER TO DETAIL 3/ET601 FOR SINGLE ACCESS DOOR CARD DETAIL.



LEVEL 1 PLAN - TECHNOLOGY

# **BID DOCUMENT NOVEMBER/02/2015**

Drawing Title Project Title Project Number CONSULTANTS: ARCHITECT/ENGINEERS: Office of INTENSIVE OUTPATIENT MENTAL HEALTH **LEVEL 1 PLAN -**AND EDUCATION BUILDING Construction BID DOCUMENT 11/02/2015 PROJECT 2013-0512 **Building Number TECHNOLOGY** CONTACT Michael Troyer SPOKANE VA MEDICAL CENTER SPOKANE, WASHINGTON 99205 1/26/2015 100% CONSTRUCTION DOCUMENT and Facilities 12/30/14 Drawing Number Management Approved: Project Director Location 99% CONSTRUCTION DOCUMENT 12/17/14 SPOKANE, WASHINGTON 99205 100 SW Main Street 95% CONSTRUCTION DOCUMENT 10/13/14 Suite 1600 Portland, OR 97204 TEL 503.382.2266 Approver ET101 65% DESIGN DEVELOPMENT 6/27/14 Checked FAX 503.382.2262 www.interfaceengineering.com SCHEMATIC DESIGN 3/28/14 11/02/2015 MT Dwg. of 11/02/15 | 425-291-7078 ISSUES Date Revisions |

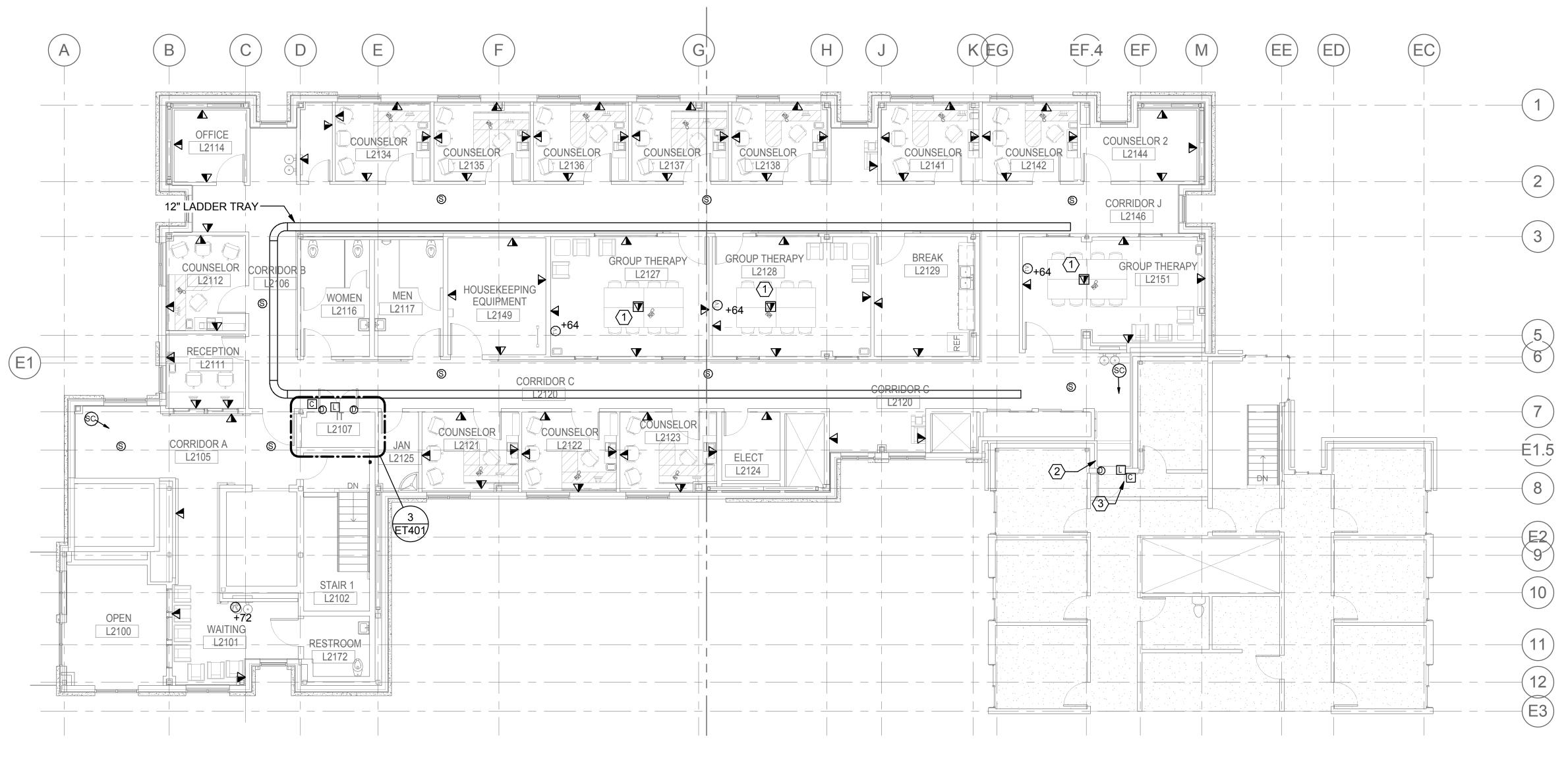
Department of Veterans Affairs

# **GENERAL SHEET NOTES**

A EXTEND SECURITY CAMERA AND DOOR ACCESS CONTROLS CABLING TO EXISTING DMP MODEL XR500N SECURITY CONTROL PANEL SYSTEM IN BUILDING 40. COORDINATE WITH ALLIED FIRE & SECURITY FOR CONNECTION TO EXISTING SYSTEM.

# ○ SHEET KEYNOTES

- 1 PROVIDE COMBINATION POWER/DATA RECESSED FLOORBOX. SEE ELECTRICAL PLAN
- 2 PROVIDE SEISMIC FITTINGS FOR CONDUITS AT EXPANSION JOINT BETWEEN BUILDING 40A AND BUILDING 40.
- 3 REFER TO DETAIL 3/ET601 FOR SINGLE ACCESS DOOR CARD DETAIL.

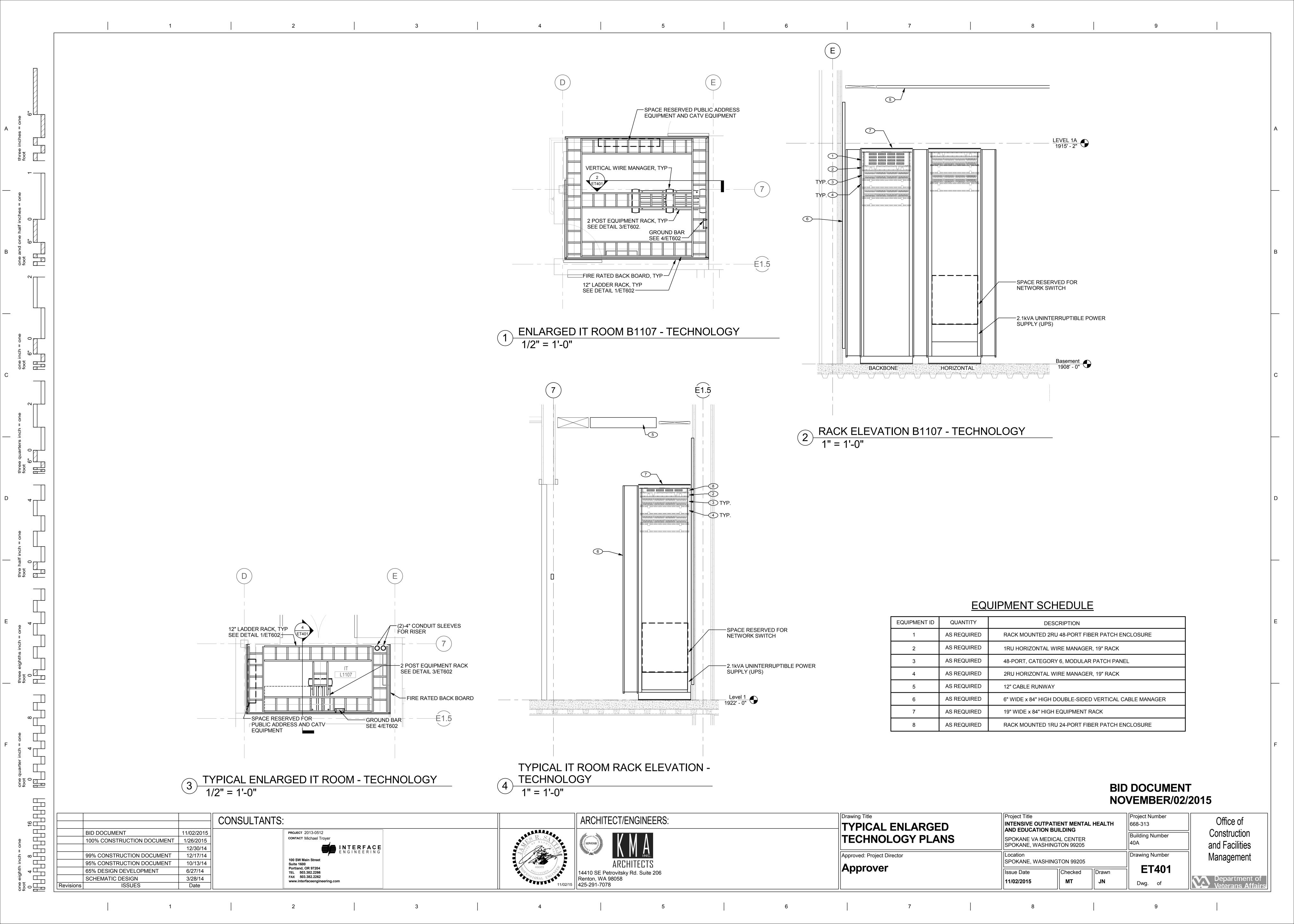


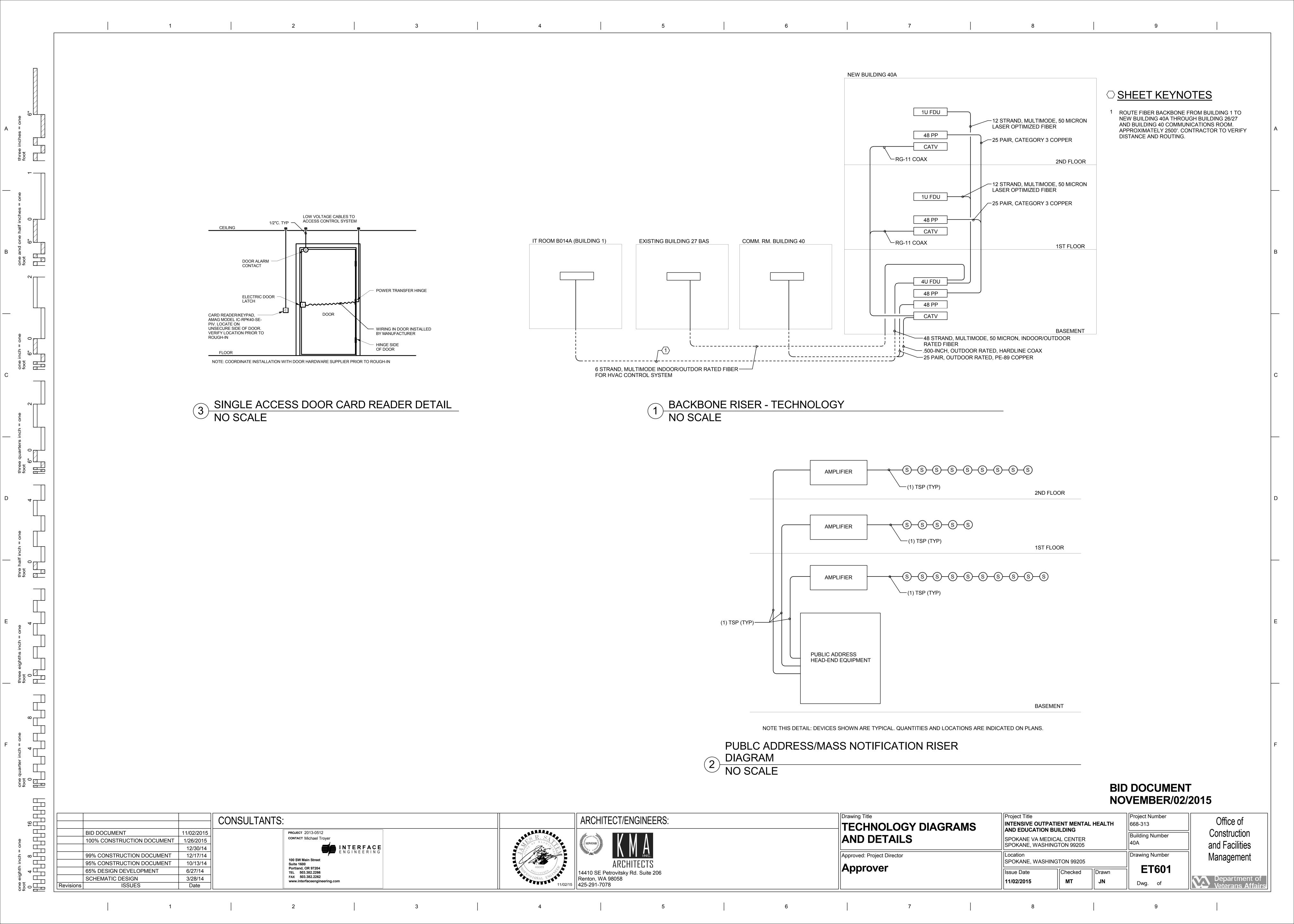
LEVEL 2 PLAN - TECHNOLOGY TRUE PLAN NORTH

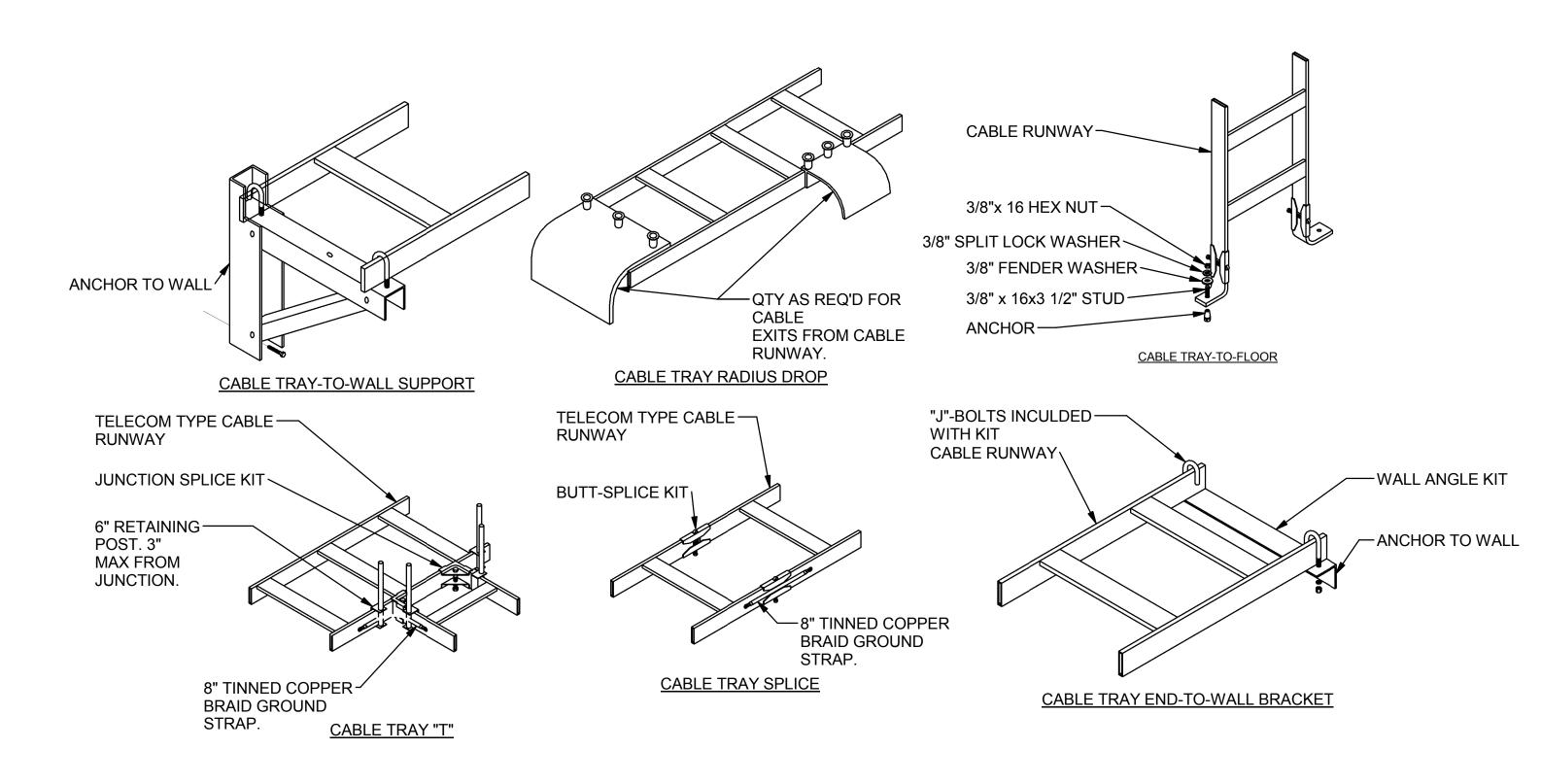
# **BID DOCUMENT NOVEMBER/02/2015**

one eighth inch = one foot

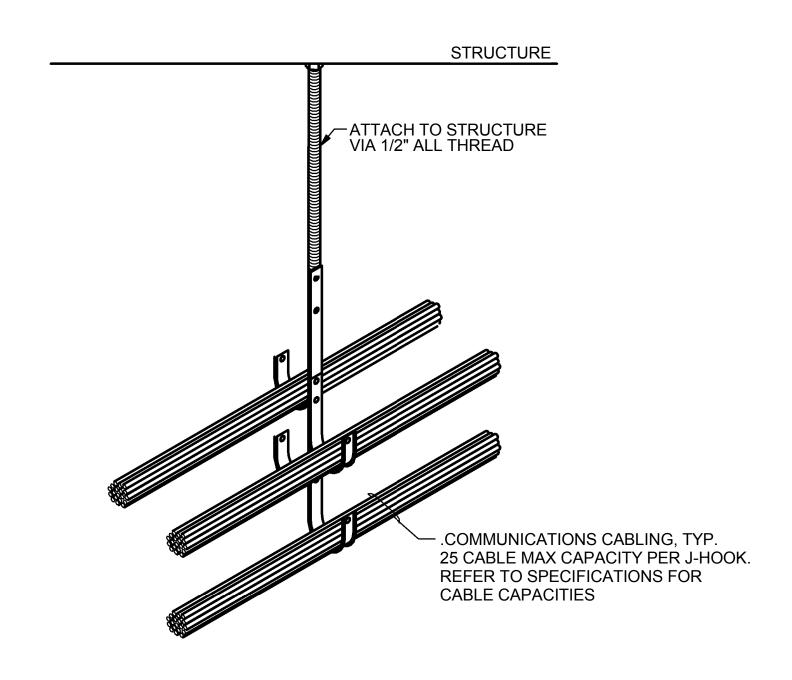
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CONTACT Michael Troyer BID DOCUMENT Building Number **TECHNOLOGY** SPOKANE VA MEDICAL CENTER SPOKANE, WASHINGTON 99205 100% CONSTRUCTION DOCUMENT 1/26/2015 and Facilities 12/30/14 Drawing Number Approved: Project Director Management Location 99% CONSTRUCTION DOCUMENT 12/17/14 100 SW Main Street SPOKANE, WASHINGTON 99205 95% CONSTRUCTION DOCUMENT Suite 1600
Portland, OR 97204
TEL 503.382.2266
FAX 503.382.2262
www.interfaceengineering.com 10/13/14 Approver ET102 65% DESIGN DEVELOPMENT 6/27/14 Checked Department of Veterans Affairs 3/28/14 Renton, WA 98058 425-291-7078 SCHEMATIC DESIGN 11/02/2015 MT Dwg. of Date ISSUES Revisions





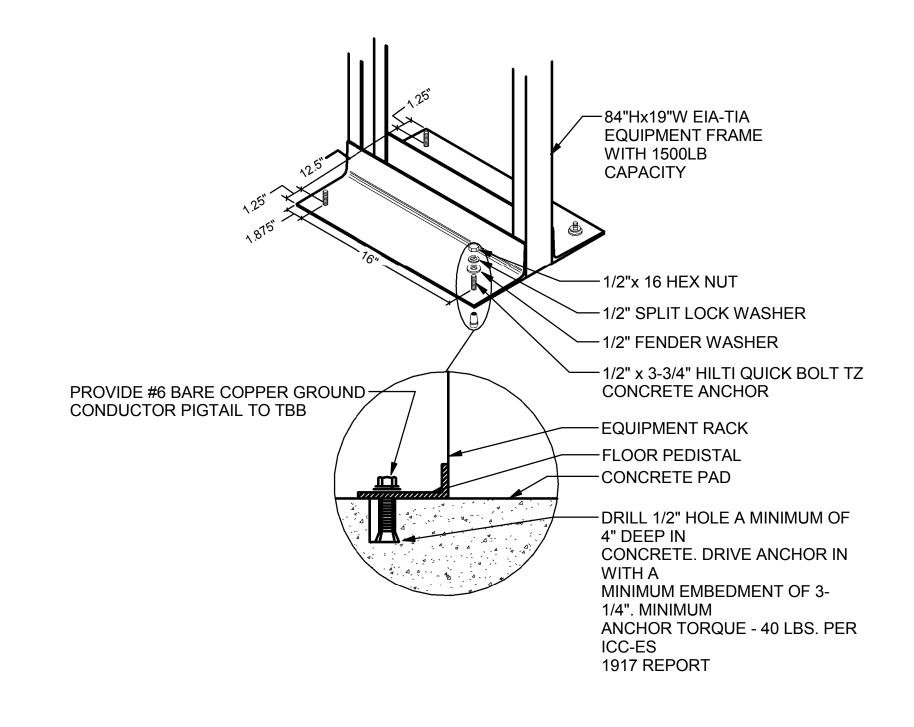


1 LADDER RACK DETAIL NO SCALE

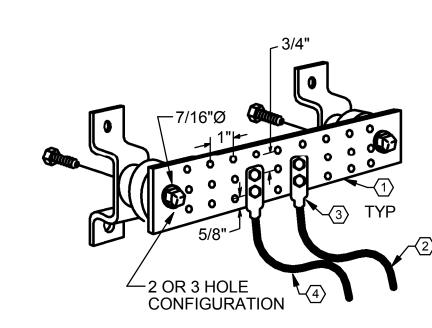


NOTE: THIS DETAIL TO BE USED SPARINGLY IN CONCEALED SPACES ONLY. SPACE J-HOOKS NO MORE THAN 5' APART.

2 J-HOOK DETAIL NO SCALE



3 RACK MOUNTING DETAIL NO SCALE



DETAIL KEYNOTES

COPPER GROUND BAR, 1/4"x4"x10", HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.

- 2 3/0 BARE COPPER GROUND CONDUCTOR TO MAIN SERVICE EQUIPMENT GROUND OR TBB.
- 3 2-HOLE LUG.
- 4 3/0 BARE COPPER GROUND CONDUCTOR TO BUILDING STEEL.

GROUNDING BUS BAR
NO SCALE

# BID DOCUMENT NOVEMBER/02/2015

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one eighth inch = one foot foot 0 one quarter inch = one foot 0 or 0 or